



RF



ORANGE COUNTY AMATEUR RADIO CLUB VOLUME XLI NO. 10 P.O. BOX 3454, TUSTIN, CA. 92781 Oct 2000

Web Site [HTTP://www.w6ze.org](http://www.w6ze.org)

I just signed off the Wednesday night net and was surprised that we had such a good turnout with the Presidential Debate and Mark Russell on TV almost simultaneously.

We're rounding the homestretch on the year 2000 and I am looking forward to the end of the year activities. The annual club auction is one of my favorites. The Christmas Dinner Party is always a delight to attend, and in the past couple of years we have had a very large turnout. I guess that everyone truly enjoys Mimi's Café. I strongly urge all in the club to attend, bring your family and friends. Thanks to **Bob, KD6BWH** for setting it up this year. Please see Bob at the next meeting, call him or E-mail him and let him know how many will be in your party. If it's anything



years, he will have to inform them of how many place settings are required.

I have been diligently starting the club generator at least once a month and letting it run for about 15 minutes. It usually starts on the first pull. This month it let me down and required two pulls. Oh well, I suppose we'll have to buy a new one (HI...HI). Anyone that is planning an outdoor club function, should bear in mind that the generator is available for all club functions requiring auxiliary power.

I wish to remind **ALL** members that we need recommendations for the "K. Yamachika Award" (formerly the "Good of the Club Award." At least I think it is formerly!).

You are going to be asked for nominations for the year 2001 officers. Please don't hesitate to nominate yourself for any office. This is my first turn at the presidency and I really enjoyed the activity and the challenge. I will slide into the office of member-at-large as per our constitution and bylaws. Please remember, that I will read the constitutional amendment that will be voted upon at the November meeting. It is the suggested amendment that allows all officers, except the Treasurer, to be elected to two consecutive one-year terms, if that officer is willing. This may help to elevate the level of continuity in regard to activities and Amateur Radio-wide politics.

73 Larry, K6LDC

BOARD OF DIRECTORS 2000

President.....	Larry Hoffman.....	K6LDC.....	636-4345
Vice President.....	Bob Buss.....	KD6BWH.....	534-2995
Secretary.....	Bud Barkhurst.....	WA6VPP.....	774-6361
Treasurer.....	Bob Eckweiler.....	AF6C.....	639-5074
Activities.....	Lowell Burnett.....	KQ6JD.....	997-0999
Membership.....	Chris Winter.....	W6KFW.....	543-6943
Publicity.....	Ken Konechy.....	W6HHC.....	744-0217
Technical.....	Larry Beilin.....	K6VDP.....	557-7217
Member at Large.....	Chris Breller.....	KJ6ZH.....	638-7209
Member at Large.....	Jim Winn.....	KE6UCH.....	731-2732

CLUB APPOINTMENTS

Club Historian.....	Bob Evans.....	WB6IXN.....	543-9111
W6ZE Trustee.....	Bob Eckweiler.....	AF6C.....	639-5074
RF Editor.....	Bud Barkhurst.....	WA6VPP.....	774-6361
Refreshments.....	Art Dillon.....	KE6WOX.....	997-2078
Field Day Chairman			
ARRL Liason.....	Frank Smith.....	WA6VKZ.....	838-3180
ARRL Award Managers...	Larry Beilin....	K6VDP.....	557-7217
	Art Dillon.....	KE6WOX.....	997-2078
RED CROSS Liason-----	Bob Buss-----	KD6BWH-----	534-2995

DUES

Regular Members.....\$20.00	Additional Members.....\$10.00ea
Teenage Members.....\$10.00	Optional Club Badge..... \$5.00 ea \$10.00

Dues for new members are pro-rated quarterly from January First each year. Family members must reside at the address of a regular member. Only one RF is sent per household.

OCARC Nominations are OPEN

Nominations for the OCARC board are open and can be sent to Bud Barkhurst (WA6VPP) or to Art Dillon (KE6WOX) Send via e-mail to Bud or by phone to Art. (obarkhurst@aol.com, Art 714-997-2078)

You can nominate yourself or someone else, but check with the person you nominate to make sure they are interested in running. Questions about board positions can be referred to Bud Barkhurst or Art Dillon.

Board Positions

President

Vice President (and Program Chairman)

Secretary

Treasurer

Activities

Membership

Publicity

Technical

(2) Members at Large

Please use this form for all your entries.



Treasures for pennies!!!
The Orange County Amateur Radio Club
Annual **AUCTION** is coming



Buy or Sell, or both...

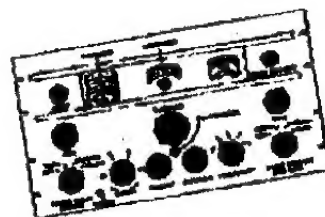
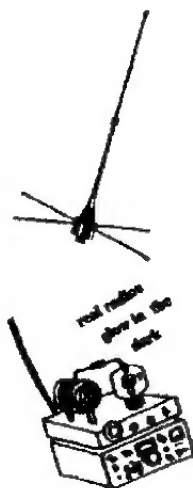
The Date is October 20th, 2000

Check-in for sellers begins at 6:30 p.m.

Auction begins at 7:30 p.m.

**Rules and guidelines will be published in the next "RF" and also
on our web site, WWW.w6ze.org**

Open to all !!!
Members and
non-members



ANNUAL ACTION
Friday, OCT 20, 2000

Auction rules

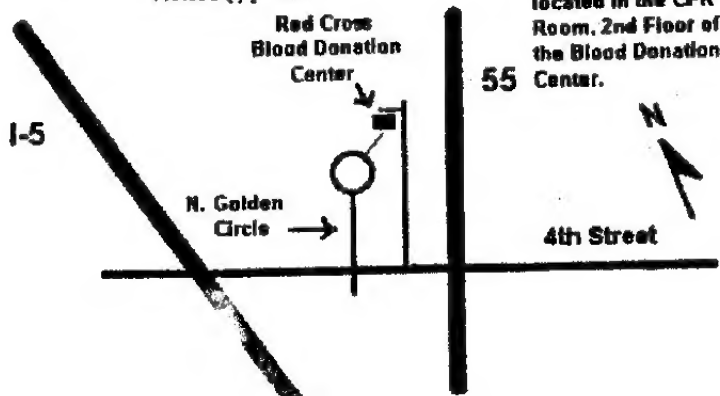
The OCARC Annual Auction will take place on Friday evening, October 20, 2000, at 7:30 PM at the American Red Cross facility located at 601 N. Golden Circle Drive, Santa Ana (see map below). The room will open at 6:30 PM to allow registration, set-up and viewing. All buyers and sellers are welcome. The following rules for the auction will be in effect:

- 1) Only Ham Radio or electronic equipment/items will be auctioned (that is: no fishing equipment, etc)
- 2) Buyers and Sellers must register at the door with the OCARC treasurer. There is NO registration fee.
- 3) Only 3 items from a Sellers lot will be auctioned during each turn. After auction 3 items, the auctioneer will move on to the next lot. After the first 3 items from every lot have been offered for bidding, the auctioneer will start the second round of auctioning with the next 3 items in Lot #1.
- 4) Sellers should number each item in their lot. A tag should indicate the minimum bid they expect.
- 5) Auction bidding will take place as follows:
 - (a) \$0.00-to-\$5.00 bidding will take place in \$0.50 increments.
 - (b) Over-\$5.00-to-\$50.00 bidding will take place in \$1.00 increments.
 - (c) Over-\$50.00-to-\$100.00 bidding will take place in \$5.00 increments.
 - (d) Over-\$100.00 bidding will be in \$10.00 increments.
- 6) Payments for purchased items are due at the end of the auction and shall be by cash or check with the appropriate ID. No two-party checks or credit cards are allowed. Disbursements to the Sellers will be by OCARC check, only. Sellers will be charged 10% of the selling price for items sold by the OCARC.
- 7) A special table will be set up for donated items. The proceeds of donated items will go to the OCARC.

We welcome all Buyers and Sellers and hope they have an enjoyable and profitable time.

Directions to OCARC Auction

Talk-In Freq: 146.55 Simplex or
146.895 (+) pl 136.5



ORANGE COUNTY AMATEUR RADIO CLUB MEMBER ROSTER YEAR 2000

LAST NAME	FIRST	CALL	CLASS	ADDRESS	CITY	PHONE	E-MAIL ADDRESS
ALEXANDER	RALPH	W6RE	E	1262 BRYAN AVE.	TUSTIN	714 544-1974	NONE
ALTHOEN	DAVID	K6YHL	G	18641 SILVER MAPLE	SANTA ANA	NONE	djalton@aol.com
ANDERSEN	PHIL	N7PA	E	420 CAMINO BANDERA	SAN CLEMENTE	949-492-1900	n7pa@home.com
BARKHURST	BUD	WA6VPP	G	938 McCLOUD ST.	ANAHEIM	714-774-6361	obarkhurst@aol.com
BEARD	PAUL	WD6FMX	G	18151 KIRK AVE.	TUSTIN	714 544-2746	wd6fmx@pacbell.net
BREILIN	LARRY	K6VDP	E	2952 REDWOOD AVE.	COSTA MESA	714-557-7217	k6vdp@aol.com
BRELLER	CHRIS	KJ6ZH	E	1345 CABRILLO PARK DR S-11	SANTA ANA	714-542-7185	kj6zh@aol.com
BRELLER	JANE	KC6TAM	E	11301 EUCLID ST. SP 67	GARDEN GROVE	NONE	kc6tam@aol.com
BROST	GENE	KF6TRA	T	2540 E BLUERIDGE AVE	ORANGE	714-637-0297	genebrost@aol.com
BURNETT	LOWELL	KQ6JD	E	3518 E BERKSHIRE CT. #B	ORANGE	714-997-0999	kq6jd@aol.com
BUSS	BOB	KD6BWH	G	11662 JOHN AVE.	GARDEN GROVE	714-534-2995	kd6bwh@aol.com
CANNON	ROBERT	W6UVC	A	17342 MEADOWVIEW DR.	YORBA LINDA	714-524-1506	NONE
CARDEN, III	ROBERT	*****		1217 N. KENNYPHEAD ST.	ORANGE	714 771-2559	rccarden@earthlink.net
CIANCI	CHRIS	KF6LEX	T+	1 HOLLAND DR.	IRVINE	949-470-4288	kf6lex@juno.com
CLARKE	JOHN	KD6PZF	T	4211 W. FIRST ST SP107	SANTA ANA	714-839-3118	clarkennix.netcom.com
CREAGER	BRUCE	KC6DLA	G	774 S. OAKWOOD ST.	ORANGE	714-538-8259	bhcreager@socal.rr.com
DANKERT	DAN	N6PEQ	A	13672 FAIRMONT WAY	TUSTIN	714-544-9846	n6peq@dxer.com
DAVIS	ALVA	W6NT	E	1971 MESA DR.	NEWPORT BEACH	949-756-9355	NONE
DAWSON	JOHN	WA6RND	E	731 N. HANDY ST.	ORANGE	714-633-7469	wa6rnd@aol.com
DILLON	ART	KE6WOX	E	11471 CHURCH ST.	ORANGE	714-997-2078	NONE
ECKWEILER	BOB	AF6C	E	667 COATE ROAD	ORANGE	714 639-5074	r.eckweiler@worldnet.att.net
EVANS	ROBERT	WB6IXN	E	701 KILSON DR.	SANTA ANA	714-543-9111	bobev@netzero.net
FERGUSON	LARRY	KR6LO	E	P.O. BOX 9441	NEWPORT BEACH	949 645-3508	larryf@fmsn.com
GOEPPINGER	TIM	KB6GEP	E	18122 ESTES WAY	SANTA ANA	714 730-0395	tgepper@aol.com
HOFFMAN	LARRY	K6LDC	E	9321 MARIETTA DR.	GARDEN GROVE	714-636-4345	k6ldc@earthlink.net
HOLLANDER	DAVE	W6COJ	G	2576 PATRICIA DR.	SANTA CLARA	NONE	NONE
HUGHES	APRIL	KG6CJI	T	12111 LAGUNA #4	GARDEN GROVE	714 971-3448	jinglebear1@juno.com
HUGHES	CINDY	KC6OPI	E	12111 LAGUNA #4	GARDEN GROVE	714-971-3448	cr_hughes@juno.com
HUGHES	DON	KC6ONZ	G	12111 LAGUNA #4	GARDEN GROVE	714-971-3448	de_hughes@juno.com
HUGHES	MISSY	KG6CJJ	T	12111 LAGUNA #4	GARDEN GROVE	714 971-3448	bigrabbit2@juno.com
HUGHES	PATRICK	KD6FZE	T	12111 LAGUNA #4	GARDEN GROVE	714-971-3448	NONE
KENECHY	KEN	W6HHC	A	340 S. CRAIG DR.	ORANGE	714 744-0217	kkonechy@rainbow.com
MEEKER	EH	W6ECI	G	535 N. EMERALD	ORANGE	714 538-8361	w6eci@aol.com
MCKENZIE	MATT	KG6BZQ	T	860 SANTIAGO RD.	COSTA MESA	714 546-2228	phantomx@phoenixdsl.com
RAMONT	FREDERICK	*****		503 N. CHANTILLY ST.	ANAHEIM	714-666-1216	fr1@mindspring.com
RITTER	ED	AD6NK	A	20 ALCOBA	IRVINE	949 252-9915	edritter1@home.com
ROBERTS	JOHN	W6JOR	E	1130 W ST. ANDREWS PL.	SANTA ANA	714-540-9148	w6jor@worldnet.att.net
ROGERS	WALTER	WC6LTD	E	8097 CYCLAMEN WAY	BUENA PARK	714-739-4499	NONE
SHELSON	ROY	W5RT	E	18042 LASSEN DR.	SANTA ANA	714 633-1855	shelson5rt@aol.com
SMITH	FRANK	WA6VKZ	E	30 SOUTH 12th ST.	SAN JOSE	714-356-4695	wa6vkz@msn.com
TALCOTT	JEANNIE	KB6E2S	N	12264 RED HILL AVE.	SANTA ANA	714 838-5395	whatateam@aol.com
TALCOTT	JIM	N6JSV	G	12264 RED HILL AVE.	SANTA ANA	714 838-5395	whatateam@aol.com
TEGEL	ROBERT	KD6XO	A	14561 BENCHLEY CIRCLE	WESTMINSTER	714-531-0926	kd6xo@aol.com
TERANDO	CORLYN	KE6WIU	T	8802 ST. ANDREWS AVE.	WESTMINSTER	714-894-3817	corymuzzk@yahoo.com
THATCHER	REGINALD	W6ZXI	E	601 LIDO PARK DR 1D	NEWPORT BEACH	949-675-3773	NONE
THOMAS	ELMER	WA6PFA	G	3216 E. GAINSBOROUGH RD.	ORANGE	714 771-2917	eelmert@aol.com
TOERING	AL	N6TEZ	G	P.O. BOX 390383	ANZA	714-667-2768	atoering@ci.santa-ana.ca.us
WEST	CHARLES	KB6TWA	A	2121 N. LEWIS ST.	SANTA ANA	714-971-5562	NONE
WINN	JIM	KE6UCH	T	13421 CHARLOMA DR.	TUSTIN	714-731-2732	winjay@pacbell.net
WINTER	CHRIS	W6KFW	E	2910 W HIGHLAND ST.	SANTA ANA	714-543-6943	cwinter727@aol.com
YAMACHIKA	IDA	*****		360 RANCHO SANTIAGO BLVD.	ORANGE		CLUB_BENEFACOR
YOUNG	RICHARD	W6RWY	G	930 S. BUCKNELL CIRCLE	ANAHEIM	714 637-7168	rustydick@worldnet.att.net

BATTERY TECHNOLOGY ADVANCES

by KEN W6HHC

Rechargeable batteries keep on getting better!!!! I read a magazine article recently (POWER 2000 published by CMP MEDIA) that gave a terrific summary of advances in rechargeable battery technologies. Currently the CELL PHONE industry and the PDA industry (HAND HELD computers like PALM PILOTS) are driving the requirements for smaller and longer-lasting batteries. The four leading technologies for rechargeable batteries are:

- 1) Li-ion (Lithium-ion)
- 2) NiMH (Nickel-Metal-Hydride)
- 3) NiCd (Nickel-Cadmium)
- 4) Li-polymers (Lithium-polymers)

Most HAMs are familiar with the first three technologies. Tremendous improvements have been made in these first three technologies over the last three years as shown in Table 1 below.

TABLE 1 - STEADY CELL CAPACITY ADVANCES

Li-ion (18650-cell)

Today	1800-to-1850 mAh
1999	1600-to-1650 mAh
1998	1350 mAh

NiMH (AAA-cell)

Today	700-to-750 mAh
1999	650 mAh
1998	550-to-590 mAh

NiCd (C-cell)

Today	2.4 Ah
1999	1.9 Ah
1998	1.7 Ah

In TABLE 1, note the size of the battery is different for each technology, but also note that each technology has improved.

Last....but not least, the fourth battery technology, Lithium-polymers, is new and has great advantages over the first three other rechargeable battery technologies because it can be made very THIN (3 to 4 mm) to fit portable equipment like NOTEBOOK computers. This battery technology is just coming into production...so you will see more of it in the future. TABLE 2 below has a summary of the advantages of Li-polymer batteries.

TABLE 2- FIVE KEY BENEFITS OF LI-POLYMER BATTERIES

Very thin profile
Flexible form factor
Higher energy density
Better cost (reduced external control circuit)
Safety (less chance of electrolyte leakage)

Table source: Sanyo Energy (U.S.A.)

CLUB NETS

Band	Mode	Day	Local Time	Freq. MHZ	Net Control
10 Meters	SSB	Wednesday	7.30 P.M	28.375*	AF6C
2 Meters	FM	Wednesday	8.30 P.M	146.550	WB6IXN
(Listen for W6ZE, Net Control)			*Plus or Minus QRM		
General Meeting		General Meeting is the third Friday of each month, 7.30P.M. AMERICAN RED CROSS facilities.			
Oct 20 th		Major cross streets: Fourth Street and Tustin Ave.			
Nov 17 th		Talk-in frequency is 146.550 MHZ, simplex.			
Dec 15 th					
Board Breakfast		Board Meeting is the first Saturday of each month, 8.00 AM to 9:30 AM			
Nov 4 th		OCARC Meeting will be held at the IHOP Restaurant			
Dec 2 nd		Located just past the intersection of Lincoln Ave			
Jan 6 th		and 17 th St., which is one red-light west of Grand Ave, Santa Ana.			



Orange County Amateur Radio Club Inc.
P.O. Box 3454
Tustin, Ca., 92781

First Class Mail

To: _____

Your Personal Copy

**Time Dated Material
PLEASE RUSH**

Coming Events

Auction - Auction - Auction